

Industrial batteries. Features summary.

Chapter 1 – Acronyms

Reading technical literature, white papers or brochures about storage, mobility or lithium ion batteries, you can find a lot of acronyms.

Please see the list of the most frequently used ones that I found and copied for you.

AGC	Automatic generation control
Ah	Ampere hours
APU	Auxiliary power unit
BESS	Battery energy storage system
BEV	Battery electric vehicle
BMS	Battery management system
BOL	Beginning of life
BOM	Bill of Materials
BTMS	Battery Thermal management system
CAES	Compressed air energy storage
CAES	Compressed air energy storage
CAN	Controller area network
CB	Circuit breaker
CCGT	Combined-cycle gas turbine
CID	Charge interrupt device
CNT	Carbon nano-tubes
COD	Commercial operation date
C-rate	1C-current discharges a battery in 1 h

CT	Combustion turbine
DC/DC	Voltage converter (direct current)
DEC	Diethyl carbonate
DLC	Double-layer capacitor
DMC	Dimethyl carbonate
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DOD	Depth of discharge
DR	Demand response
DSP	Digital signal processor
DUT	Device under test
EC	Ethylene carbonate
ECU	Electronic control unit
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EES	Electric Energy Storage
EESA	Electrical energy storage assembly
EFR	Enhanced frequency response
Ege	Gravimetric energy density
EIS	Electric insulation switchgear
EMC	Electrical Equivalent Circuit
EMC	Ethyl methyl carbonate
EMC	Electromagnetic compatibility
EMI	Electromagnetic interference
EOL	End of life
EPC	engineering, procurement, and construction
ESD	Electrostatic discharge
ESS	BAT
EV	Electric vehicle

FES	Flywheel energy storage
FET	Field effect transistor
FLA	Flooded lead acid battery
FMEA	Failure modes and effects analysis
FMECA	Failure modes and effects criticality analysis
FMVSS	Federal Motor Vehicle Safety Standards
GIS	Gas insulation switchgear
GW	Gigawatts
HEV	Hybrid electric vehicle
HF	Hydrofluoric (acid)
HF	Hydrofluoric acid
HRR	Heat release rate
HSCB	High-speed circuit breaker
ICE	Internal combustion engine
IEC	International Electrotechnical Commission
IEEE	The Institute of Electrical and Electronics Engineers
IGBT	Insulated gate bipolar transistors
IPP	Independent power producer
ISO	International Organization for Standardization
JV	Joint Venture
Kw	kilowatt
Kwh	kilowatt-hour
LA	lead-acid
LCO	Lithium cobalt
LCOS	Levelized cost of energy storage
LFL	Lower flammability limit
LFP	Lithium iron phosphate

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LiF	lithium fluoride
Li-ion	Lithium ion
LMO	Lithium manganese (or manganate)
LPMS	Local power management system
LTO	Lithium titanate
MEMS	Micro-electromechanical system
MW	Megawatt
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NaS	Sodium–Sulfur Battery
NaS	Sodium-Sulfur Battery
NCA	Nickel cobalt aluminum
NCM	Nickel cobalt manganese
NiCd	Nickel-cadmium
NiMH	Nickel metal-hydride
NiMH	Nickel metal hydride
NMC	Nickel cobalt manganese
NMP	N-methylpyrrolidone
NTC	Negative temperature coefficient
O & M	Operations and Maintenance
OCV	Open Circuit Voltage
OEM	Original equipment manufacturer
PAM	Parallel array of modules
PASC	Parallel array of series cells
PC	Propylene carbonate
PCB	Printed circuit board
PCC	Point of common coupling

PCM	Protection circuit module
PCS	Propylene carbonate
PCS	Power conversion system
PE	Polyethylene
PHEV	Plug-in hybrid electric vehicle
PMS	Power management system
PP	Polypropylene
PQ	Power quality
PTC	Positive temperature coefficient
PTC	Polymeric thermal cutoff
PV	Photovoltaic
PVDF	Polyvinylidene fluoride (also poly vinylidene difluoride)
PVdF-HFP	Poly(vinylidene fluoride)-hexafluoropropylene
PWM	Pulse width modulation
Q	Capacity
RESS	Rechargeable energy storage system
RFB	Redox Flow Battery
RFI	Request for Information
RFP	Request for Proposals
RFQ	Request for Quote
RH	Relative humidity
SCADA	Supervisory Control and Data Acquisition
SCS	Supervisory control system
SEI	Solid-electrolyte interface (also solid-electrode interface) INVESTIGAR SALE MUCHO
SLFP	Super Lithium iron phosphate Saft Battery
SOC	State of charge (0 to 100%)

SOH	State of health
SOH	State of heath
TCO	Temperature cutoff
TOU	Time of use
TPC	Total plant cost
UFL	Upper flammability limit
ULD	Unit load device
UPS	Uninterruptible power supply
V2G	Vehicle to Grid
VAC	Alternative current voltage
VAR	Reactive power and volt-ampere reactive
VC	Vinylene carbonate
VCE	Collector-emitter voltage
VDC	Direct courent voltage
VEC	Vinyl ethylene carbonate
Vn	Nominal voltage
VRFB	Vanadium redox flow battery
VRLA	Valve-regulated lead-acid battery
WACC	Weighted average cost of capital
Wh	Watt hour
WVTR	Water vapor transmission rate
ZBFB	Zinc–bromine flow battery

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